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No. 60073
2nd Edition

JVC Service Manual

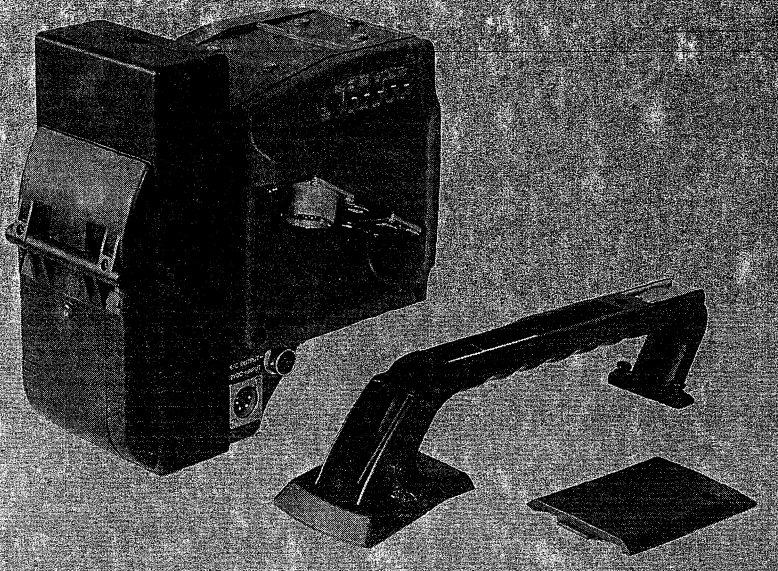
CAMERA ADAPTER

MODEL KA-27

VICTOR COMPANY OF JAPAN, LIMITED

No. 60073
2nd Edition

JVC Service Manual



• Battery Holder, Carrying Handle and Top cover are accessories.

CAMERA ADAPTER

MODEL KA-27

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Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

● Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded (▒▒) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers
   4) Insulation sheets for transistors
   5) Barrier

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

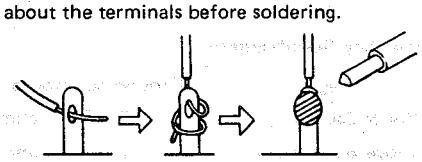


Fig. 1

7. Observe that wires do not contact heat producing parts (heat-sinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10–15 kg of force in any direction will not loosen it.

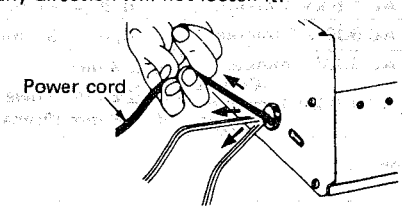


Fig. 2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.
    1) **Connector part number** : E03830-001
    2) **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
    3) **Replacement procedure**
       (1) Remove the old connector by cutting the wires at a point close to the connector.
       Important : Do not reuse a connector (discard it).

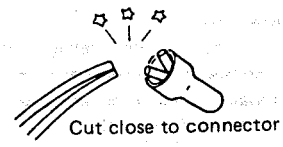


Fig. 3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

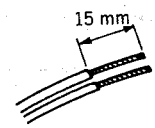


Fig. 4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

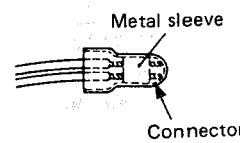


Fig. 5

(4) As shown in Fig. 6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

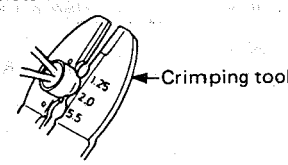


Fig. 6

(5) Check the four points noted in Fig. 7.

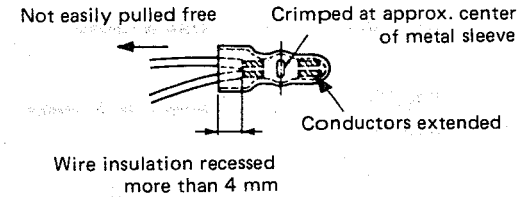

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig. 7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

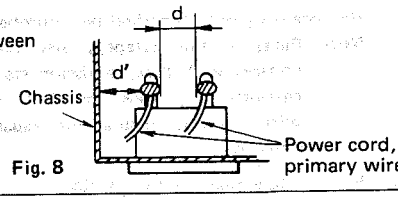


Fig. 8

4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method: (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

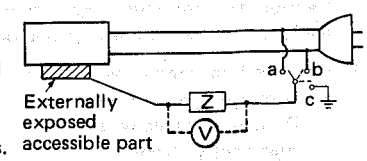


Fig. 9

5. Grounding (Class I model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

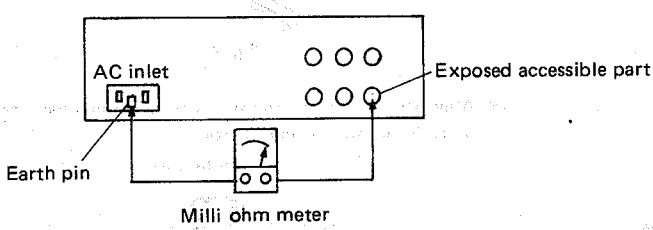


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	—	AC 900 V 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ /500 V DC	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

KA-27 CAMERA ADAPTER INSTRUCTIONS

● KA-27 is a camera adapter for use only with KY-27 color video camera. When this camera adaptor is attached to the KY-27, a portable VTR or the remote control unit RM-P200 or RM-P300 can be used.

● For more details other than this instruction manual, please see the instruction manual for the KY-27 color video camera.

Thank for purchasing the JVC KA-27 Camera Adapter.
To gain maximum benefit from it, it is suggested that you read the following instructions carefully and retain this leaflet for future reference.

■ INSTALLATION AND PREPARATION

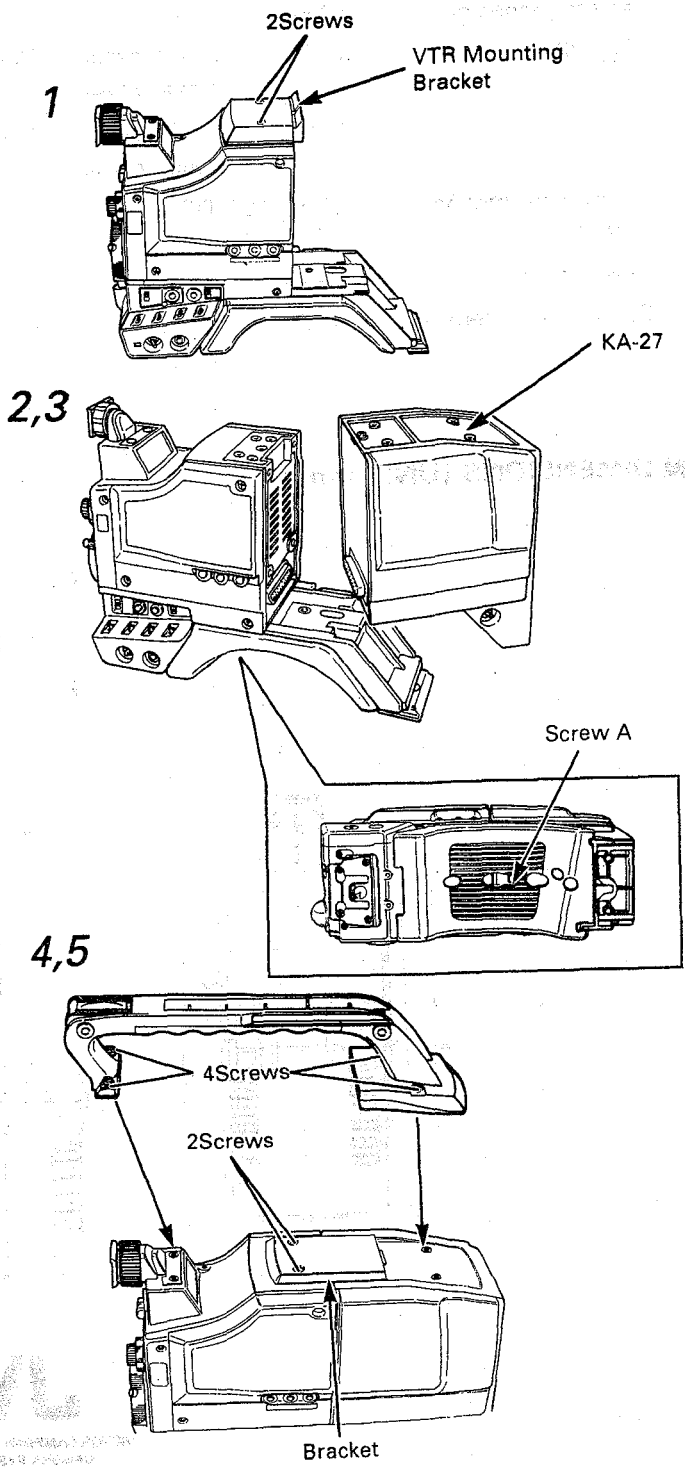
1 The KY-27 is supplied disconnected from the KA-27 adapter.
The first step is to remove the VTR Mounting Bracket that is used for some docking VTRs.
There are 2 screws holding the bracket in place.

2 Next slide the KA-27 on to the back of the KY-27, engaging the 50 pin parallel connector.

3 Use Screw A to lock the KA-27 to the shoulder rest mount.

4 The KA-27 is supplied with a mounting bracket to replace the VTR mounting Bracket. This is held in place with 2 screws.

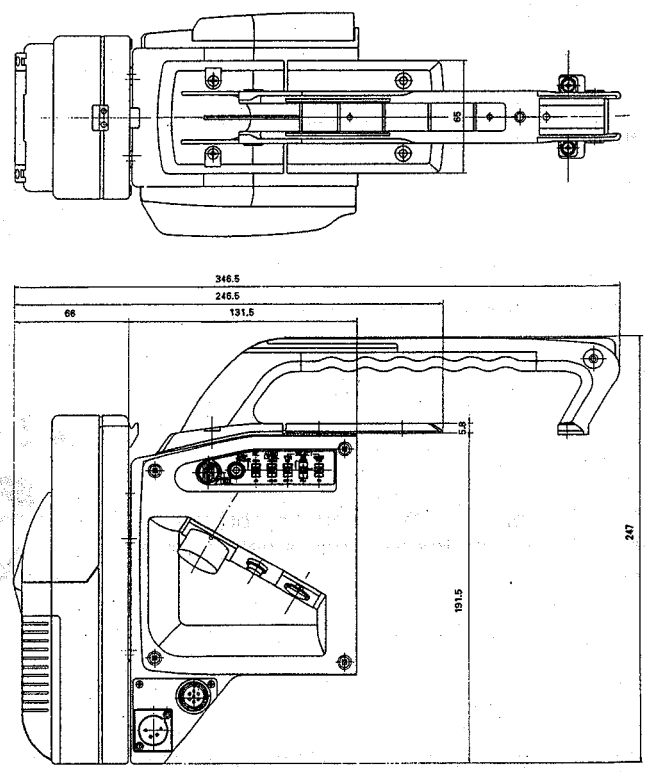
5 The last step is to mount the Handle to the Viewfinder post and the KA-27. The Handle is secured with 4 screws.



■ SPECIFICATIONS

Suitable camera	: KY-27	
DC input	: XLR-4P, DC 10.5-15V	
Microphone input	: XLR-3P, 600 ohms unbalanced	
Sound monitor	: 3.5 mm diagonal, impedance 8 ohms	
VTR connector/ Remote control connector	: 26-pin	
Camera connector	: 50-pin	
Y/C output	: U-Ver. :Y (with sync) 1 Vp-p C 358 0.286 Vp-p	} 7-pin
	E-Ver. :Y (with sync) 1 Vp-p C 443 0.3 Vp-p	} 7-pin
Power consumption (Typical)	: 40 mA 12 V DC	
Weight	: 1.3 kg	
Operating temperature	: –5°C– + 45°C	

■ DIMENSIONS (UNIT: mm)



JVC

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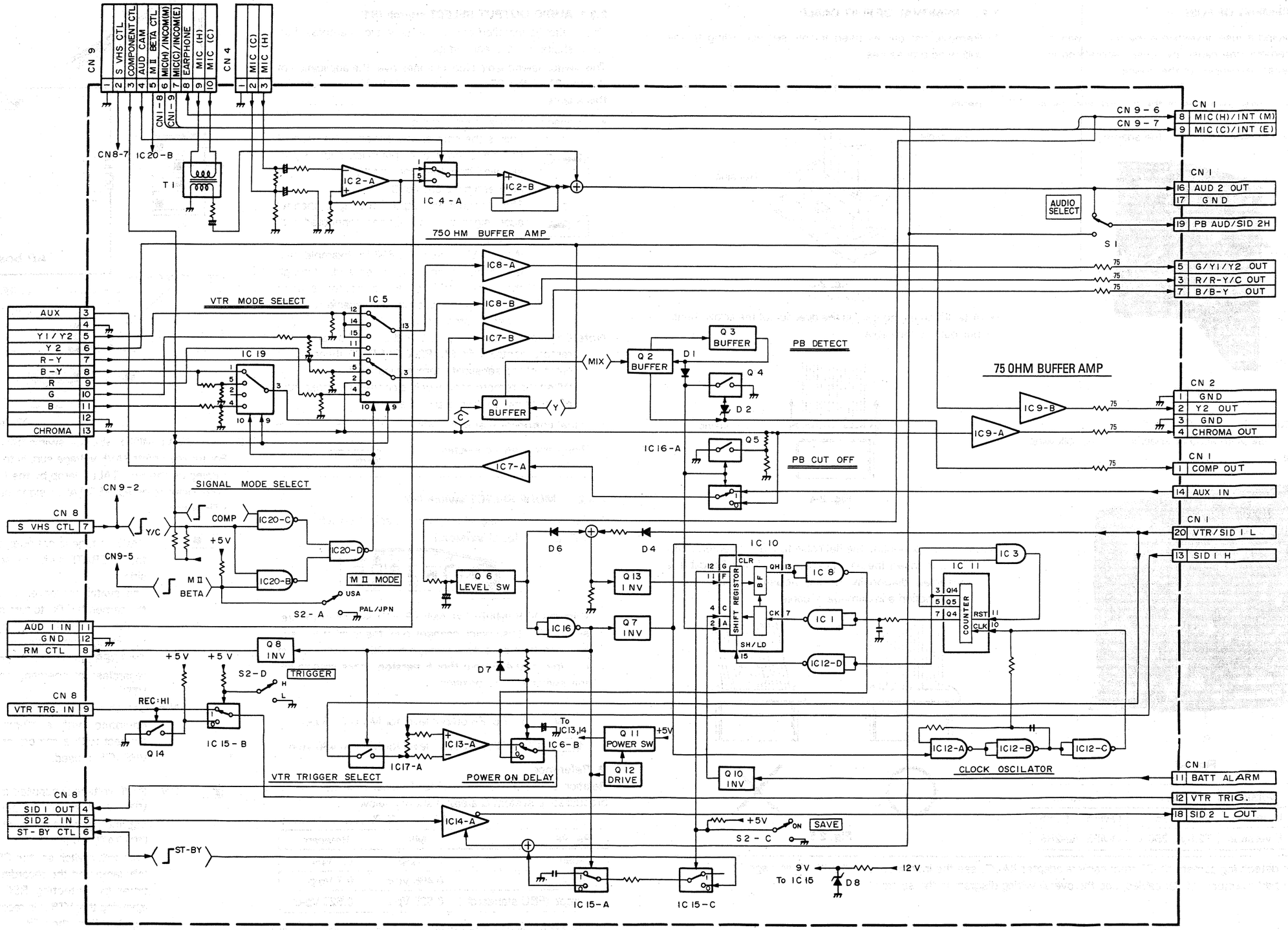
CAMERA SYSTEM DIVISION

Printed in Japan
SC96595

SECTION 1
BLOCK DIAGRAM

1.1 AD board block diagram



SECTION 2
SERVICE CAUTIONS AND DISASSEMBLY

2.1 REPLACEMENT OF FUSE ⚠

When replacing a fuse, investigate the reason why it blew and remove the cause by repair beforehand in order to prevent expansion of the trouble.

1. Turn off the power switches of the camera and the AC adapter.
2. Remove the left side cover Ⓐ of the adapter.

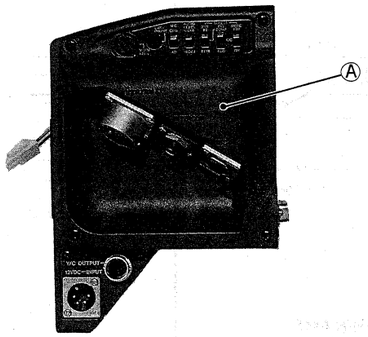


Fig. 2-1

3. There is a fuse (F1) on the AD board.
   Replace the fuse with another specified by the following part number.

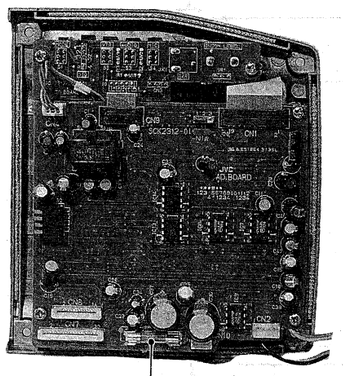


Fig. 2-2

Symbol No.	Version	Rating	Part Number
⚠ F1	U version	2.5 A, 125 V	QMF51U1-2R5
	E version	T2.5 A, 250 V	QMF51A2-2R5

2.2 REMOVAL OF FLAT CABLE

1. Remove flat cables used in this set according to the following procesures.

- Lift the housing right upwards, then pull out the flat cable gently.

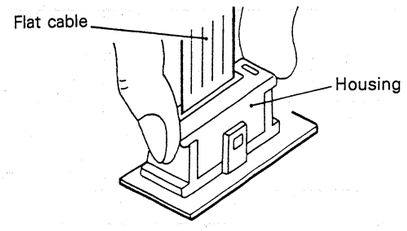


Fig. 2-3

- After lifting the housing in the direction of the arrow, gently pull out the flat cable.

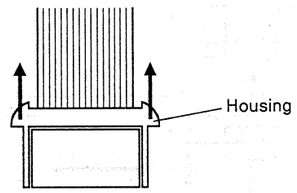


Fig. 2-4

Note: When connecting the flat cable to the connector, make sure to insert the flat cable straight. If the flat cable is inserted diagonally to the housing, it cay cause malfunction and damage of cable.

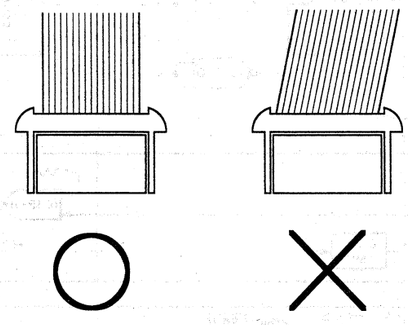


Fig. 2-5

Reference: For detaching camera KY-27 from camera adapter KA-27, see the instructions of the KY-27 on page 71.
For part numbers of flat cables, see the overall wiring diagram in the section 3.

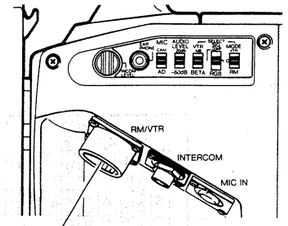
2.3 FUNCTIONS OF CAMERA'S INTERNAL SWITCHES

There are two switches provided on the AD board inside the camera adapter. Respective functions of these switches are as follows.

2.3.1 AUDIO OUTPUT SELECT switch (S1)

This switch is installed only in the U version cameras that were shipped in the early stage.

This switch (switchable plug) changes over the application of the pin 20 of the 26-pin connector (RM/VTR connector) of this adapter.



- Connection between pin 1 and pin 2

  1 2 3 This is the normal connection to be used as the input terminal of playback audio signal supplied from the connected VTR.

- Connection between pin 2 and pin 3

  1 2 3 This connection outputs the right channel audio signal of a microphone connected with the camera.
  When a VTR (JVC HR-2650 for example) that is capable of inputting stereo audio through the camera-VTR cable connector is used together with, this connection enables the VTR to record stereo sound.

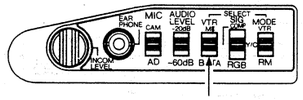
Note: Connection between pins 2 and 3 inhibits use of the remote control unit RM-P200/RM-P300 (because of cutoff of the serial data communication line).
When the remote control unit is connected, make sure of connection between pins 1 and 2.

Initial connection at shipment

Pins 1 and 2 are connected. 1 2 3

2.3.2 MODE SELECT switch (S2)

1. Color difference signal output level select switch for MII VTR (S2-1). **(for U version.)**



With the VTR (MII/BETACAM) SELECT switch of this set set to "MII", this switch changes over the level of R-Y and B-Y signals to be output through the 26-pin connector to 0.7 Vp-p or 0.486 Vp-p. **(For E version,** make sure to set this switch to "ON" position.)

ON ←

OFF : PB, PR output level for MII is 0.7 Vp-p.

ON : PB, PR output level for MII is 0.486 Vp-p.

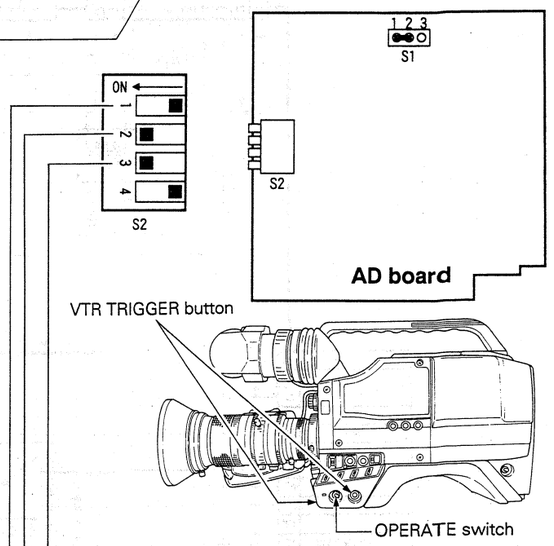
● **Reference**

Relation between PB, PR level for Betacam/MII and the TV broadcasting system & areas is shown below.

(Values in 75 % color bars level)

PB, PR	MII	Betacam
Japan	0.7 Vp-p	0.7 Vp-p
U.S.A.	0.486 Vp-p	0.7 Vp-p
Europe (EBU standard)	0.525 Vp-p	0.525 Vp-p

2. This switch (S2-2) is not used.



3. TALLY/SAVE MODE SELECT switch (S2-3)
   For turning on/off SAVE voltage supply to the VTR and for turning on the REC TALLY lamp by the CPU, this switch determines to detect REC TALLY signal supplied from the VTR or not.

ON ←

OFF : SAVE voltage is not outputted even when the OPERATE switch is set to "SAVE" position.
This switch moreover functions to enable the camera's CPU to turn on the tally lamp in the viewfinder and to start/stop the recording accumulation timer by the TRIGGER button of the camera or the lens regardless of operating conditions of the VTR.

Note: Set this switch to OFF when a VTR equipped with a 10-pin connector to connect with a camera or a conventional VHS VTR is used.

ON : SAVE voltage is supplied to the connected VTR, which enters the power save mode depending on setting of the camera's OPERATE switch.
With this switch on, the CPU controls the tally lamp and the recording accumulation timer by detecting REC TALLY signal (showing that VTR is in recording operation) supplied from the VTR.

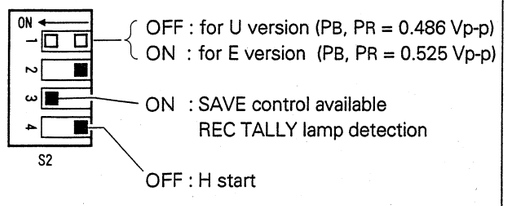
4. VTR TRIGGER MODE SELECT switch (S2-4)
This switch changes over VTR trigger signal.

ON ←

OFF : H (+4 V) start

ON : L (GND) start

Initial setting at shipment

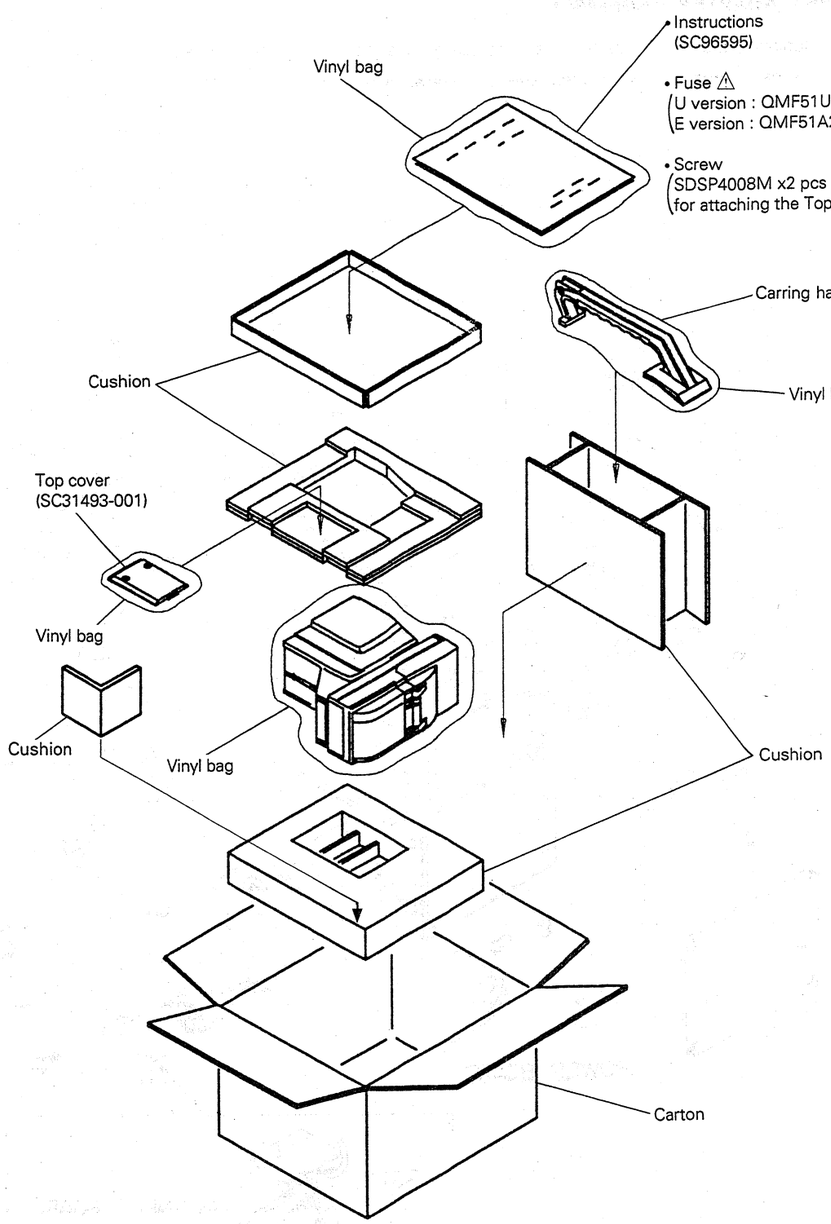


SECTION 3
ADJUSTMENT PROCEDURES

There are no adjustment parts provided in the KA-27.
IF output video signal level is incorrect in color bars output mode;

- CHROMA level is not correct →See "3.7 ADJUSTMENT OF ENCODER" on page of KY-27's service manual (No. 60072).
- Y. SYNC level is not correct →There are no adjustment point provided in the KY-27 or KA-27.
  Check the connection of the cables or terminations.

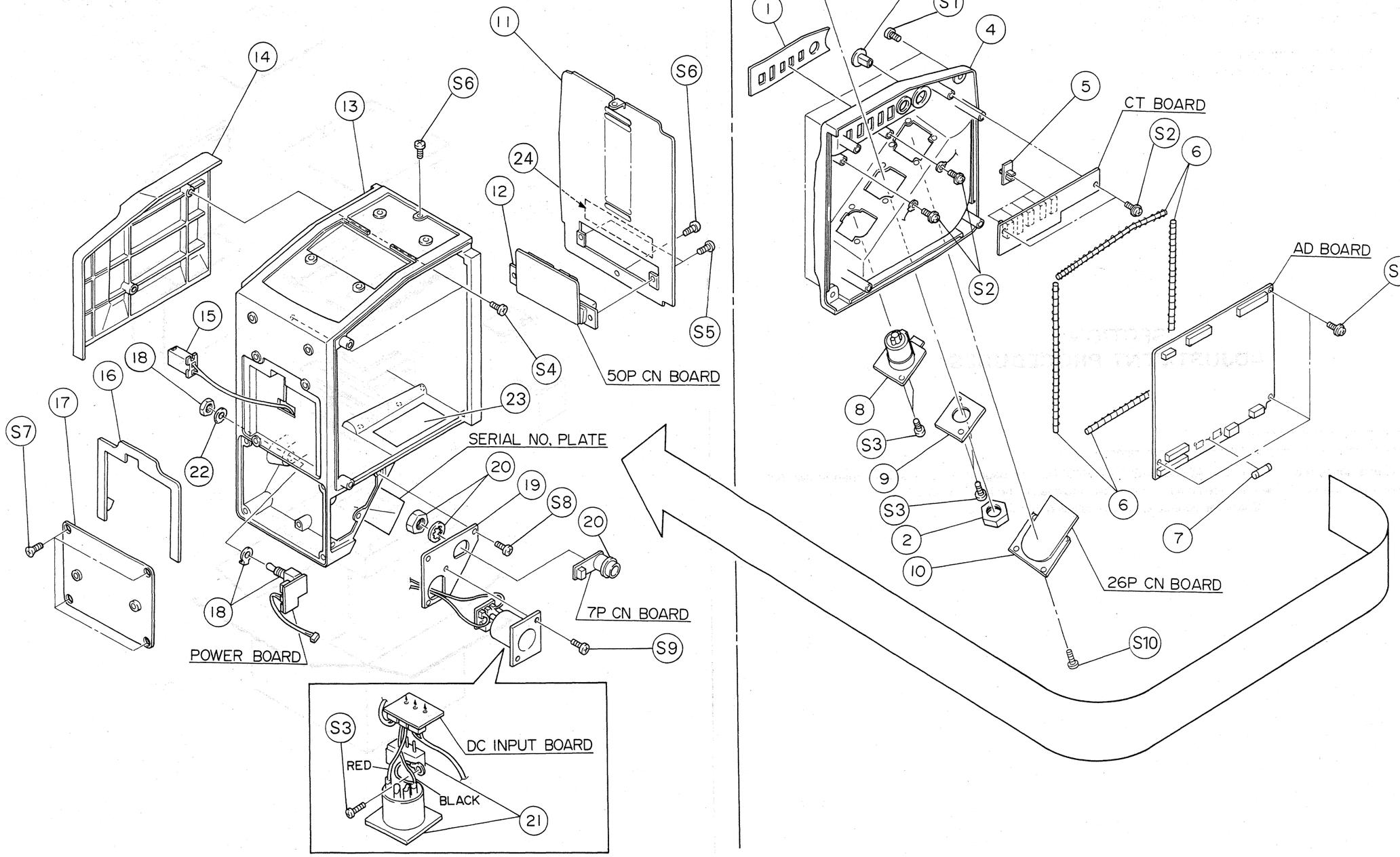
SECTION 4
REPACKING



SECTION 5
EXPLODED VIEWS AND PARTS LIST

5.1 CAMERA ADAPTER ASSEMBLY

Note: •Replacing marked ⚠ parts, be sure to use parts specified for safety purposes.
•For part number of flat cables, see the Overall Wiring Diagram.



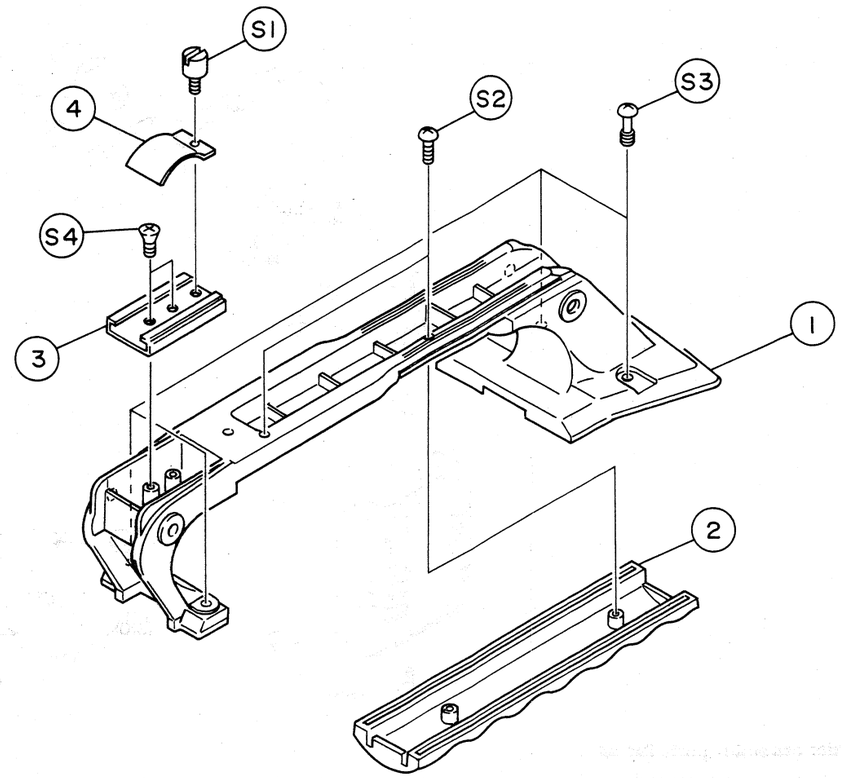
5-1

● **Camera adapter assembly parts list** M1

M1MM□□□□

Symbol No.	Part No.	Part Name	Description
1	SC45135-001	PLATE	
2	QMS6312-014	JACK	INTERCOM
3	SC45134-001	KNOB	
4	SC10145-002	SIDE COVER (L)	
5	SC45116-001	KNOB	
6	SC44847-090	SHIELD TUBE	
⚠ 7	REFER TO THE SECTION 2 "REPLACEMENT OF FUSE"	FUSE	
8	SCV0316-03S	CONNECTOR	MIC, CANNON 3PIN
9	SC45136-002	PLATE	
⚠ 10	REFER TO THE SECTION 7.4 "26P CN board assembly"	CONNECTOR	26PIN (RM/VTR)
11	SC31494-002	PANEL	
12	SCV1244-50S	CONNECTOR	50PIN
13	SC10144-002	FRAME	
14	SC20471-001	CHEEK PAD	
⚠ 15	SCV1353-002	CONNECTOR	
16	SC45138-001	CUSHION	
17	SC45137-001	REAR PANEL	
⚠ 18	SCV1298-001	TOGGLE SWITCH	S1 POWER
19	SC45193-001	PLATE	
20	SCV1214-002	JACK	Y/C
⚠ 21	SCV1977-04P	4P CONNECTOR	DC INPUT WITH MICRO SWITCH (S2)
22	Q03093-202	WASHER	
⚠ 23	SC41252-001	CAUTION LABEL	
⚠ 24	SC43658-001	CAUTION LABEL	U version only
S1	SDSP3006N	SCREW	M3×6
S2	LPSP3006Z	SCREW	M3×6
S3	SPSP2606N	SCREW	M2.6×6
S4	SDSF3008M	SCREW	M3×8
S5	SPSP2008Z	SCREW	M2×8
S6	SDSP3006M	SCREW	M3×6
S7	SSSP3006M	SCREW	M3×6
S8	SDSP2606M	SCREW	M2.6×6
S9	SPSP2606N	SCREW	M2.6×6
S10	SPSP3006N	SCREW	M3×6

5.2 CARRING HANDLE ASSEMBLY



● **Carrying handle assembly parts list** M2

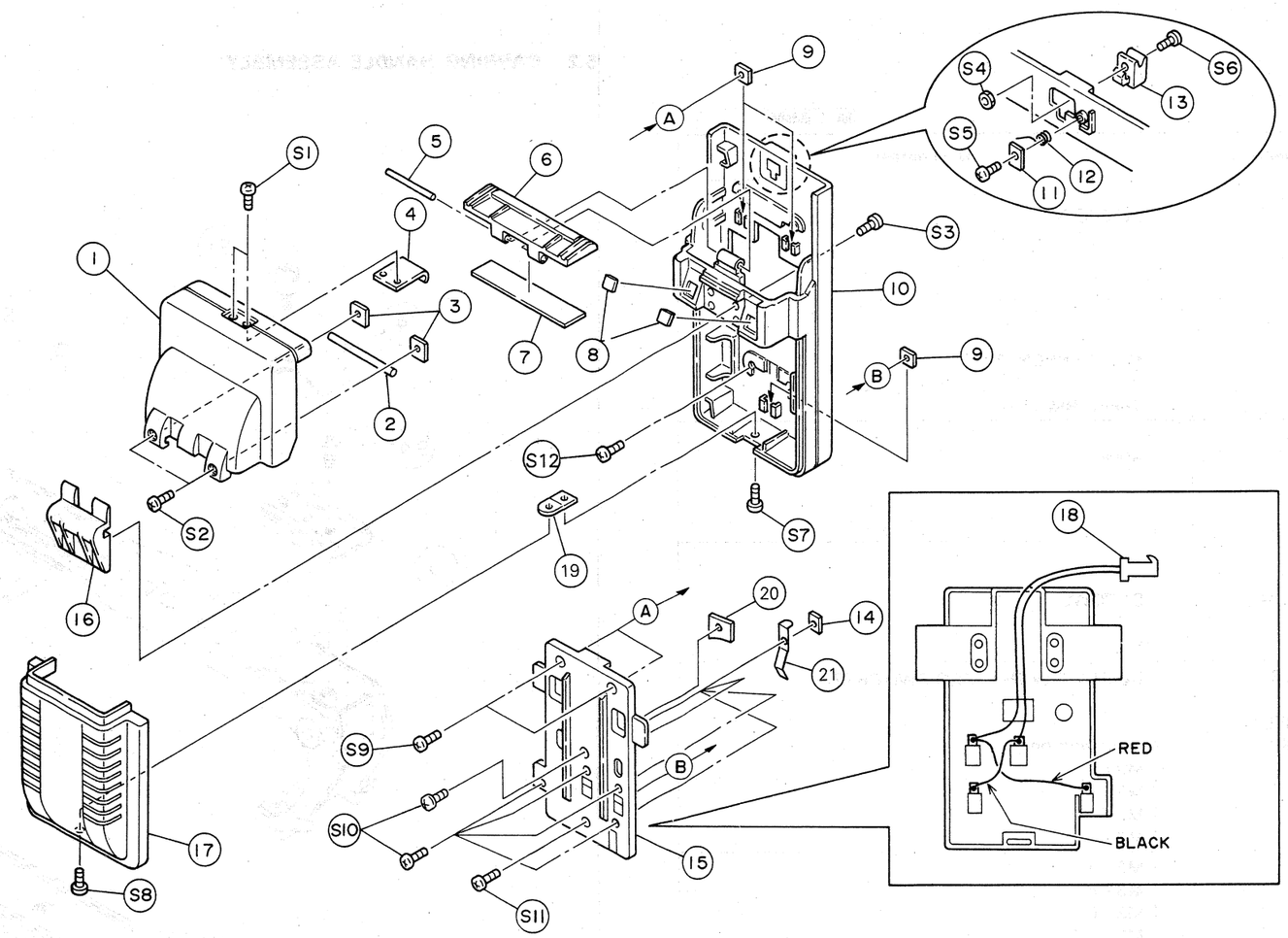
Note: Finished carrying handle assembly is not supplied as a spare, but individual parts are provided for servicing.

M2MM□□□□

Symbol No.	Part No.	Part Name	Description
1	SC10157-001	HANDLE	
2	SC31516-001	COVER	
3	SC40886-001	GUIDE	
4	C40936	SPRING	
S1	SC44821-001	SCREW	
S2	SDSF2606M	SCREW	M2×6
S3	SC43390-001	SCREW	
S4	SSSP3006N	SCREW	M3×6

5-2

5.3 BATTERY HOLDER ASSEMBLY



● **Battery holder assembly parts list** M3

Note: Finished battery holder assembly is BH-P27, but individual parts are provided for servicing.

M3MM□□□□

Symbol No.	Part No.	Part Name	Description
⚠ 1	SC20476-001	COVER	
2	SC45154-001	SHAFT	
3	SC45153-001	PLATE	
4	SC44838-001	LOCK PLATE	
5	SC44805-001	SHAFT	
6	SC31319-011	GUIDE	
7	SC44869-006	CUSHION	
8	SC45155-001	CUSHION	
9	SC44899-001	NUT	
⚠ 10	SC10156-001	BASE	
11	SC43571-001	PLATE	
12	SC43568-001	SPRING	
13	SC43570-001	LOCK KNOB	
14	SC44886-001	NUT PLATE	
⚠ 15	SC20478-001	COVER	
⚠ 16	SC31501-001	SHAFT HOLDER	
⚠ 17	SC20477-001	COVER	

Symbol No.	Part No.	Part Name	Description
18	SC45215-002	CONNECTOR	
19	SC45152-001	NUT PLATE	
20	SC45151-001	PLATE	
21	SC45150-001	PLATE	
S1	SPSK2650M	SCREW	M2×50
S2	SSSP2606M	SCREW	M2×6
S3	SDSP2605M	SCREW	M2×5
S4	NNS2000N	NUT	
S5	SDSF2005M	SCREW	M2×5
S6	SDSP2006M	SCREW	M2×6
S7	SDSP3004N	SCREW	M3×4
S8	SDSP3005M	SCREW	M3×5
S9	SSSP3005M	SCREW	M3×5
S10	SSSK2040M	SCREW	M2×40
S11	SSSP3005M	SCREW	M3×5
S12	SDSP3008M	SCREW	M3 X 8 (for attaching with camera adapter), 4 pcs

5-3

SECTION 6
CHARTS AND DIAGRAMS

■ SCHEMATIC DIAGRAM NOTES

● Schematic safety precaution

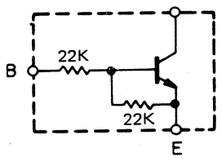
▒▒ Parts are safety related parts.
When replacing them, be sure to use the specified parts.

Voltage and waveform measurements.
Voltage: Measured with digital voltmeter in DC range; iris closed.
Waveform: Grey scale illuminated at more than 4000 lux at 3200 K lighting.

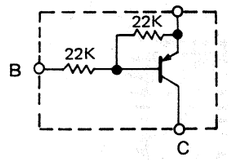
● Terminal logic
Top bar of terminal name show input or output logic.
Top bar shows, the control circuit become active at negative (low) logic input for example.

● Digital transistors

DTC124EU



DTA124EU

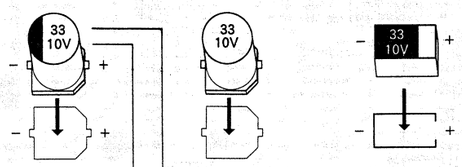


● Definistion of the (A) and the (B) or circuit boards diagrams
(A) : Side on which discrete parts are assembled
(B) : Side on which only chip parts are assembled.

■ REPLACING SUBMINIATURE "CHIP" PARTS

- Some resistors, shorting jumpers (0 Ω resistance), ceramic capacitors, transistors, and diodes are chip parts. These chip parts cannot be reused after they are once removed.
- Soldering cautions:
  1) Do not apply heat for more than 3 seconds.
  2) Avoid using a rubbing stroke when soldering.
  3) Discard removed chips; do not reuse them.
  4) Supplementary cementing is not required.
  5) Use care not to scratch or otherwise damage the chips.
- Resistors and capacitors are not interchangeable with chip parts which are used in the color video cameras BY-110, KY-210, etc., because of difference in size. In case of order for parts, refer to the section 7 "ELECTRICAL PARTS LIST".
- Polarities of chip electrolytic capacitors and chip tanntalum capacitors used in KA-27 are as illustrated below. Polarities indicated by silk-screen printing on P.C. boards are also shown below. When replacing such parts, make sure of polarities.

• Electrolytic capacitor	• Non-polarized electrolytic capacitor	• Tantalum capacitor



6-1

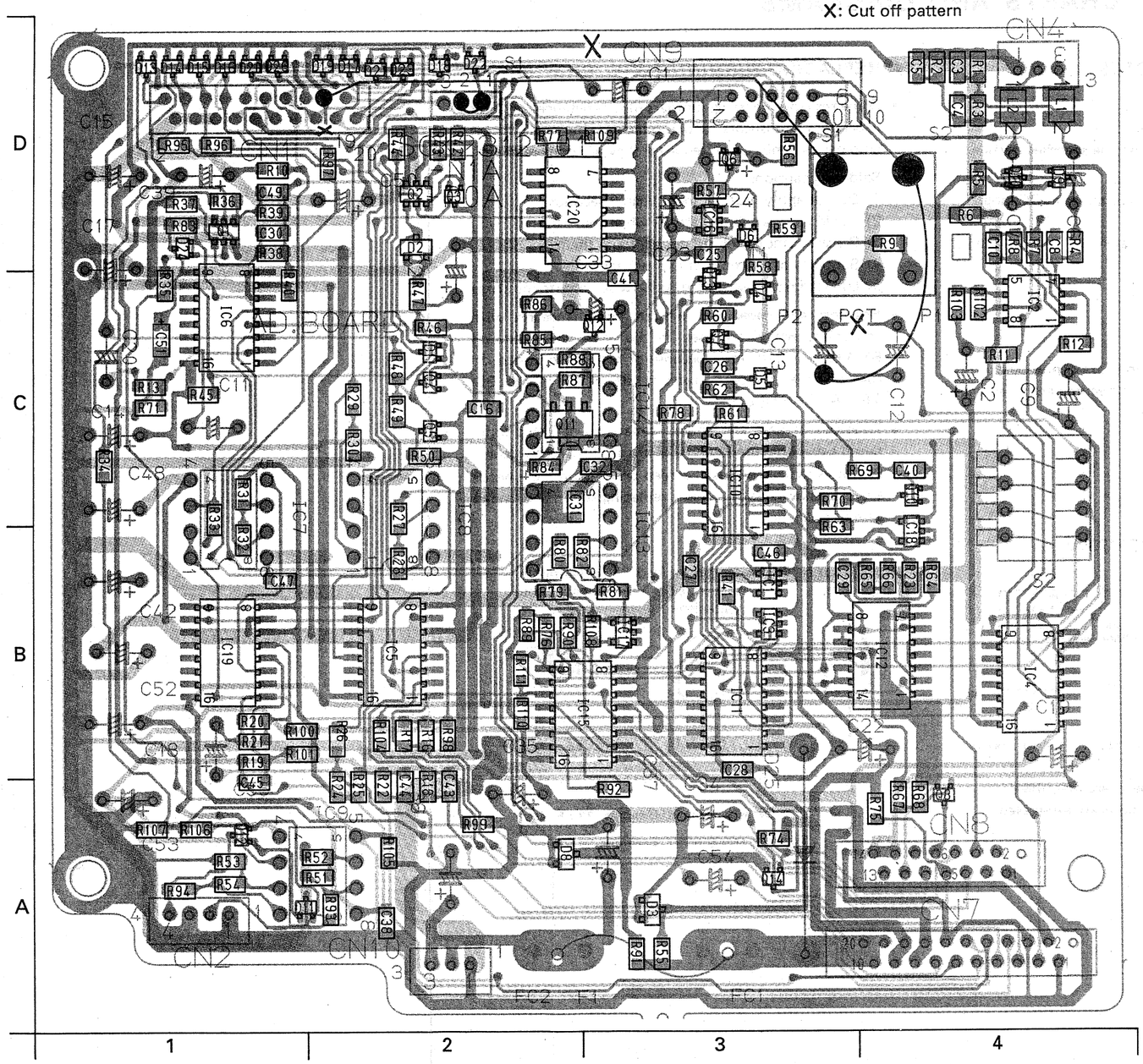
6.1 AD CIRCUIT BOARD

• **ADDRESS TABLE OF BOARD PARTS**
Each address may have an address error by one division.

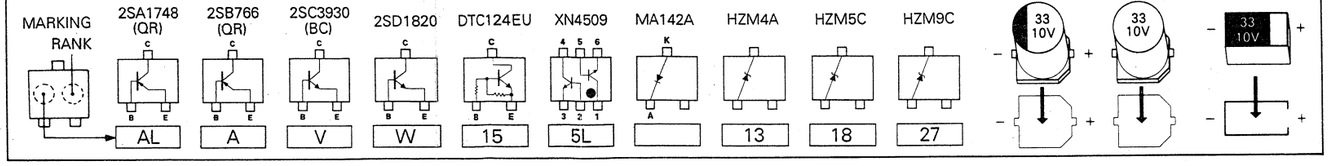
A-1C
Side — Y axis
X axis

IC1	B- 3B	R22	B- 2A	R106	B- 1A
IC2	B- 4C	R23	B- 4B	R107	B- 1A
IC3	B- 3B	R24	B- 2A	R108	B- 3B
IC4	B- 4B	R25	B- 2A	R109	B- 3D
IC5	B- 2B	R27	B- 2C	R110	B- 2B
IC6	B- 1C	R28	B- 2B	R111	B- 2B
IC7	A- 1B	R29	B- 2C		
IC8	A- 2B	R30	B- 2C	C1	A- 3D
IC9	A- 1A	R31	B- 1C	C2	A- 4C
IC10	B- 3B	R32	B- 1B	C3	B- 4D
IC11	B- 3B	R33	B- 1C	C4	B- 4D
IC12	B- 4B	R34	B- 1C	C5	B- 4D
IC13	A- 2B	R35	B- 1C	C6	A- 4D
IC14	A- 2C	R36	B- 1D	C7	A- 4D
IC15	B- 3B	R37	B- 1D	C8	B- 4D
IC16	B- 3D	R38	B- 1D	C9	A- 4C
IC17	B- 3B	R39	B- 1D	C10	B- 4D
IC18	B- 4B	R40	B- 1C	C11	A- 1C
IC19	B- 1B	R41	B- 3B	C12	A- 4C
IC20	B- 3D	R42	B- 2D	C13	A- 3C
		R43	B- 2D	C14	A- 1C
Q1	B- 1D	R44	B- 2D	C15	A- 1D
Q2	B- 2D	R45	B- 1C	C16	B- 2C
Q3	B- 2D	R46	B- 2C	C17	A- 1D
Q4	B- 2C	R47	B- 2C	C18	A- 1B
Q5	B- 2C	R48	B- 2C	C19	A- 4B
Q6	B- 3D	R49	B- 2C	C20	A- 1C
Q7	B- 3C	R50	B- 2C	C21	A- 2C
Q8	B- 4A	R51	B- 2A	C22	A- 4B
Q10	B- 4C	R52	B- 2A	C23	A- 3D
Q11	B- 3C	R53	B- 1A	C24	A- 3D
Q12	B- 3C	R54	B- 1A	C25	B- 3D
Q13	B- 3D	R55	B- 3A	C26	B- 3C
Q14	B- 3A	R56	B- 3D	C27	B- 3B
		R57	B- 3D	C28	B- 3B
D1	B- 2C	R58	B- 3D	C29	B- 3B
D2	B- 2D	R59	B- 3D	C30	B- 1D
D3	B- 3A	R60	B- 3C	C31	B- 3C
D4	B- 3C	R61	B- 3C	C32	B- 3C
D5	B- 3C	R62	B- 3C	C33	A- 3C
D6	B- 3D	R63	B- 3B	C34	A- 3A
D8	B- 2A	R64	B- 4B	C35	A- 2A
D9	B- 4D	R65	B- 4B	C36	A- 2A
D10	B- 4D	R66	B- 4B	C37	A- 3A
D11	B- 2A	R67	B- 4A	C38	B- 2A
D12	B- 1A	R68	B- 4A	C39	A- 1D
D13	B- 1D	R69	B- 4C	C40	B- 4C
D14	B- 1D	R70	B- 3C	C41	B- 3D
D15	B- 1D	R71	B- 1C	C42	A- 1B
D16	B- 1D	R74	B- 3A	C43	B- 2A
D17	B- 2D	R75	B- 4A	C44	B- 2A
D18	B- 2D	R76	B- 2B	C45	B- 1A
D19	B- 2D	R77	B- 2D	C46	B- 3B
D20	B- 1D	R78	B- 3C	C47	B- 1B
D21	B- 2D	R79	B- 2B	C48	A- 1C
D22	B- 2D	R80	B- 2B	C49	B- 1D
D23	B- 2D	R81	B- 3B	C50	A- 2D
D24	B- 1D	R82	B- 3B	C51	B- 1C
D26	B- 1D	R83	B- 1D	C52	A- 1B
		R84	B- 2C	C53	A- 1A
D25	A- 3A	R85	B- 2C	C54	A- 3A
		R86	B- 2C	C55	A- 1A
R1	B- 4D	R87	B- 3C		
R2	B- 4D	R88	B- 3C	L1	B- 4D
R3	B- 4D	R89	B- 2B	L2	B- 4D
R4	B- 4D	R90	B- 2B		
R5	B- 4D	R91	B- 3A	CN1	A- 1D
R6	B- 4D	R92	B- 3A	CN2	A- 1A
R7	B- 4D	R93	B- 2A	CN4	A- 4D
R8	B- 4D	R94	B- 1A	CN7	A- 4A
R9	B- 4D	R95	B- 1D	CN8	A- 4A
R10	B- 1D	R96	B- 1D	CN9	A- 3D
R11	B- 4C	R97	B- 2D	CN10	A- 2A
R12	B- 4C	R98	B- 2B		
R13	B- 1C	R99	B- 2A	FC2	A- 2A
R16	B- 2B	R100	B- 1B	FC1	A- 3A
R17	B- 2B	R101	B- 1B		
R18	B- 2A	R102	B- 4C	S1	A- 2D
R19	B- 1B	R103	B- 4C	S2	A- 4B
R20	B- 1B	R104	B- 2B		
R21	B- 1B	R105	B- 2A	T1	A- 4D

X: Cut off pattern

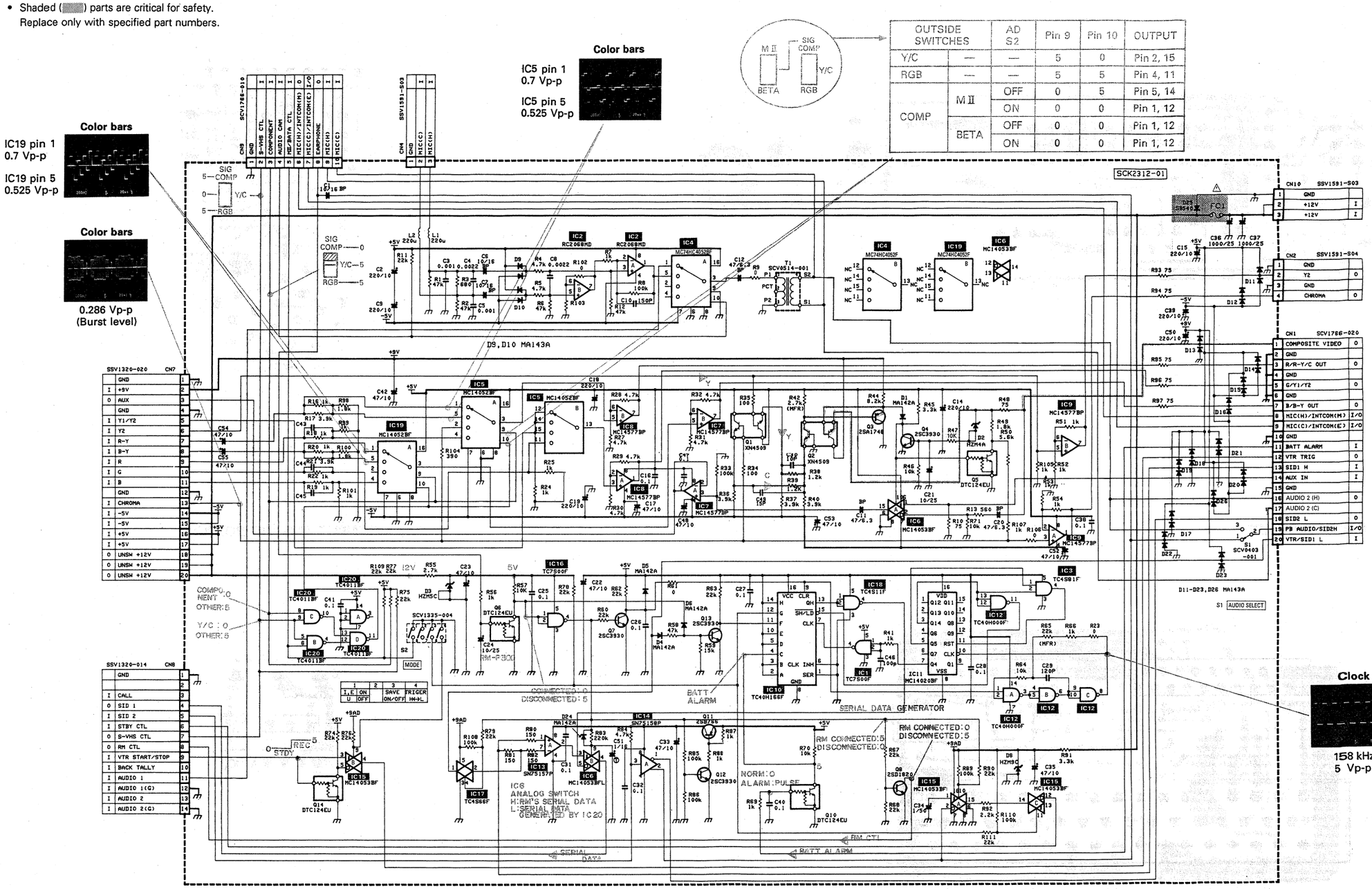


Chip parts pin arrangement (Top view)



6.2 AD BOARD SCHEMATIC DIAGRAM

- Shaded (▒) parts are critical for safety.
  Replace only with specified part numbers.

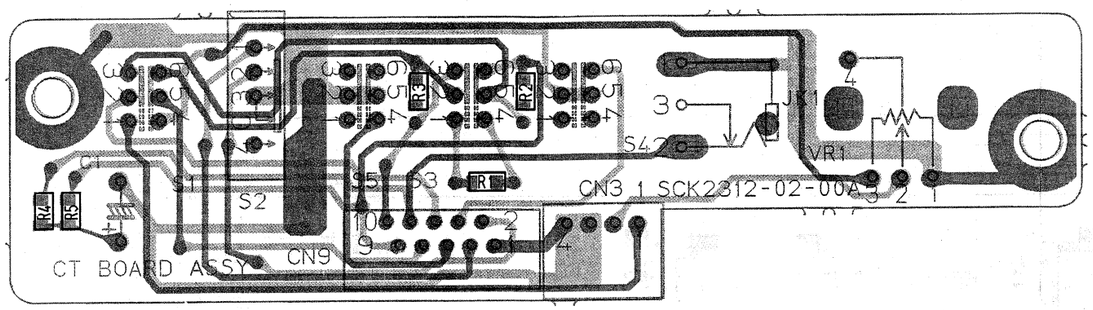


OUTSIDE SWITCHES		AD S2	Pin 9	Pin 10	OUTPUT
Y/C	—	—	5	0	Pin 2, 15
RGB	—	—	5	5	Pin 4, 11
COMP	M II	OFF	0	5	Pin 5, 14
		ON	0	0	Pin 1, 12
	BETA	OFF	0	0	Pin 1, 12
		ON	0	0	Pin 1, 12

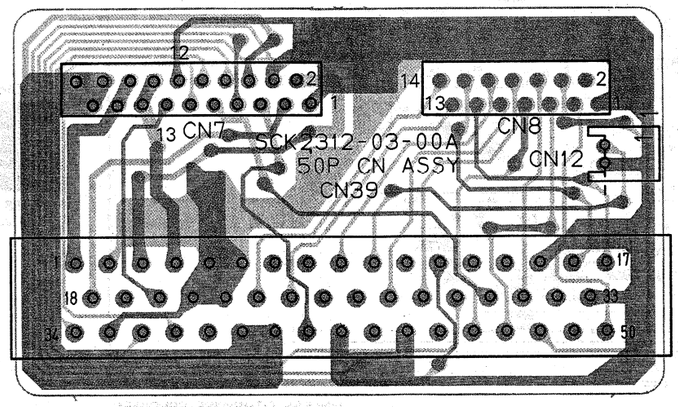
UNLESS OTHRWISE SPECIFIED
DIODES: MA134A

Revised in Oct. 1992

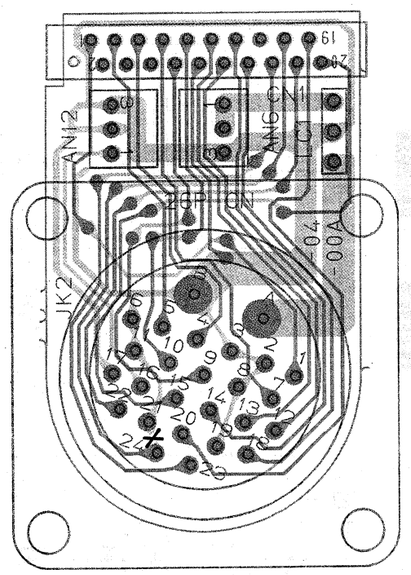
6.3 CT CIRCUIT BOARD



6.4 50PCN CIRCUIT BOARD

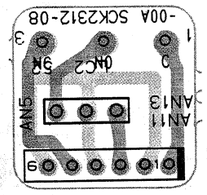


6.5 26PCN CIRCUIT BOARD



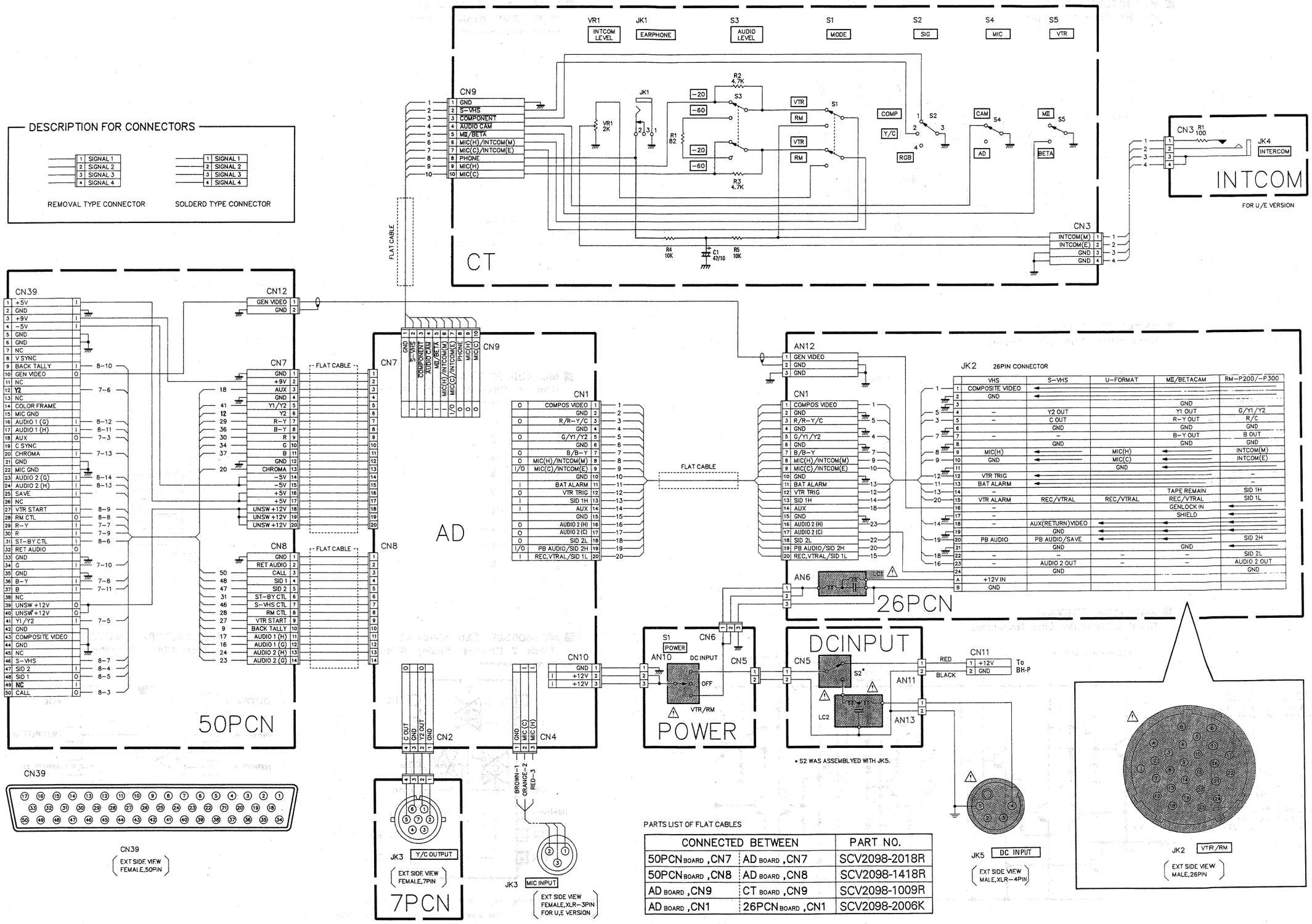
X: Cut off pattern

6.6 DC INPUT CIRCUIT BOARD



6-4

6.7 CAMERA ADAPTER OVERALL WIRING
(Included CT, 50PCN, 26PCN, DC INPUT, INTCOM 7PCN, POWER board schematic diagrams)

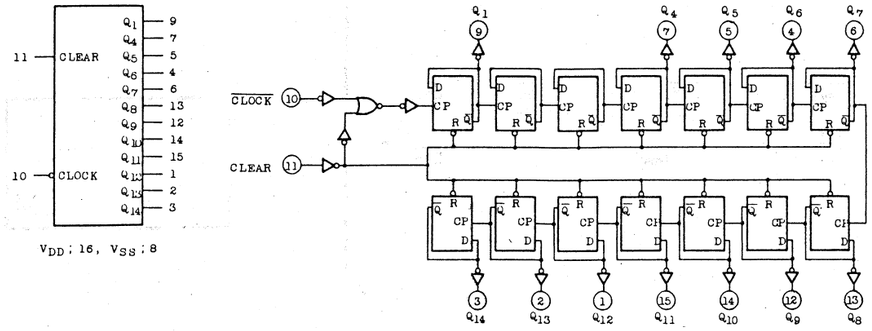


PARTS LIST OF FLAT CABLES

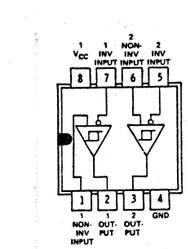
CONNECTED BETWEEN		PART NO.
50PCN BOARD ,CN7	AD BOARD ,CN7	SCV2098-2018R
50PCN BOARD ,CN8	AD BOARD ,CN8	SCV2098-1418R
AD BOARD ,CN9	CT BOARD ,CN9	SCV2098-1009R
AD BOARD ,CN1	26PCN BOARD ,CN1	SCV2098-2006K

6.8 SCHEMATIC DIAGRAM of ICs

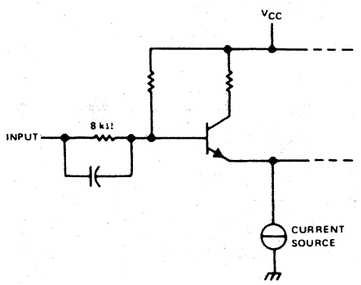
■ MC14020BF 【MOTOROLA】
(14 Bit Binary Counter)



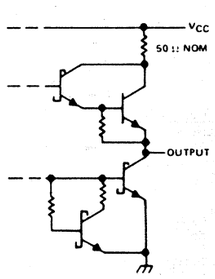
■ SN75157P 【TEXAS】
(Dual Differential Line Drivers)



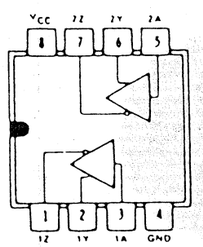
Input circuit



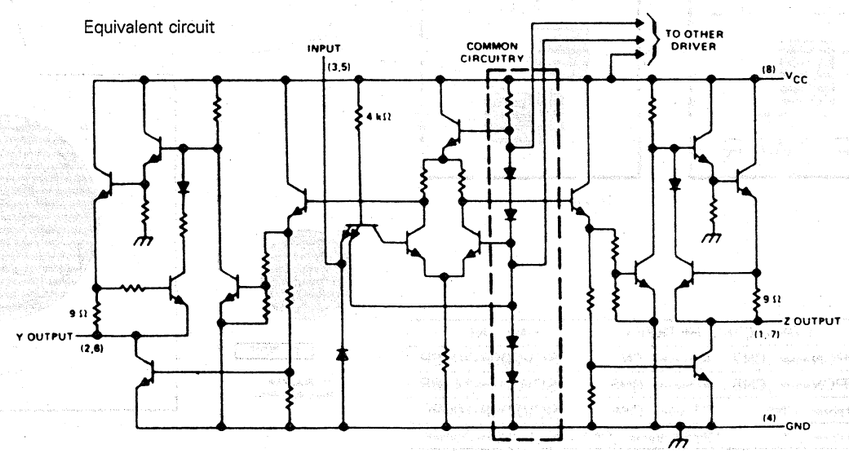
Output circuit



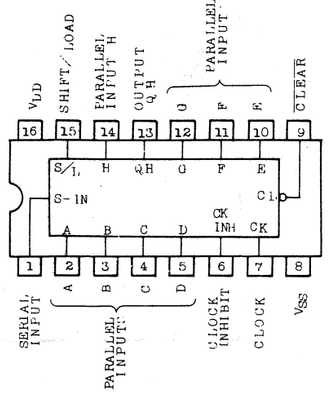
■ SN75158P 【TEXAS】
(Dual Differential Line Receivers)

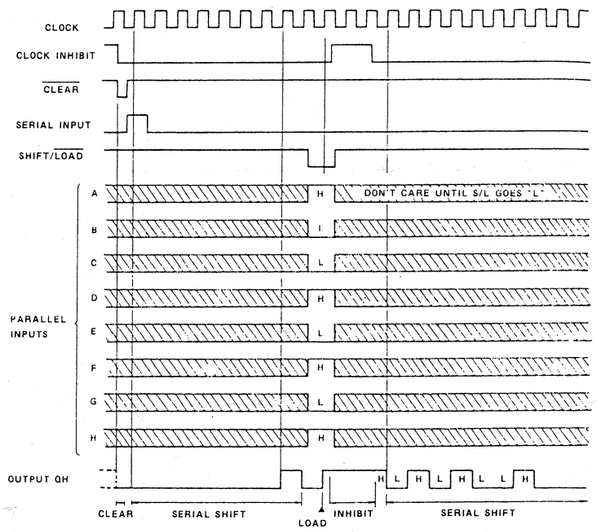


Equivalent circuit

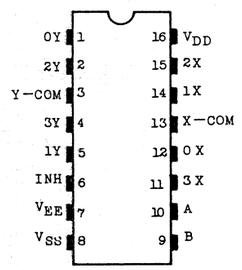


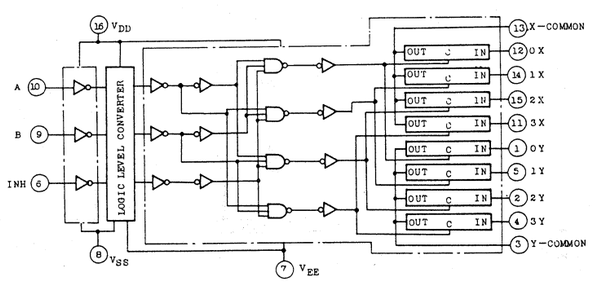
■ TC40H166F 【TOSHIBA】
(8 Bit Shift Register (Pararell/ Serial-IN,Serial-OUT))


V_{DD} SHIFT/LOAD PARALLEL INPUT H OUTPUT Q H PARALLEL INPUT CLEAR
16 15 14 13 12 11 10 9
S/L H QH G F E
S-IN Cl
A B C D CK INH CK
1 2 3 4 5 6 7 8
SERIAL INPUT
PARALLEL INPUTS
CLOCK INHIBIT
CLOCK
V_{SS}

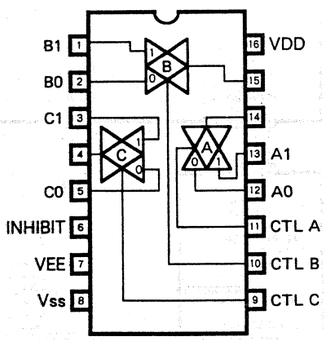


■ MC14052BF 【MOTOROLA】
(Dual 4 Channel Analog Multiplexers/ Demultiplexers)



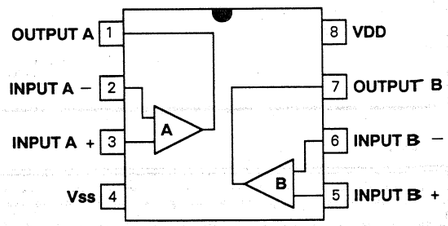


■ MC14053BF 【MOTOROLA】
(Triple 2 Channel Analog Multiplexers/ Demultiplexers)



CONTROL VOLTAGE : $V_{SS} \leq (V_{CTL\ A}, V_{CTL\ B}, V_{CTL\ C}) \leq V_{DD}$
INPUT VOLTAGE : $V_{EE} \leq (V_{A1}, V_{A0}, V_{B1}, V_{B0}, V_{C1}, V_{C0}) \leq V_{DD}$

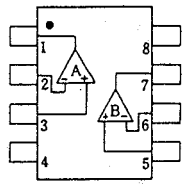
■ MC14577BF 【MOTOROLA】
(Dual Video Amplifier)



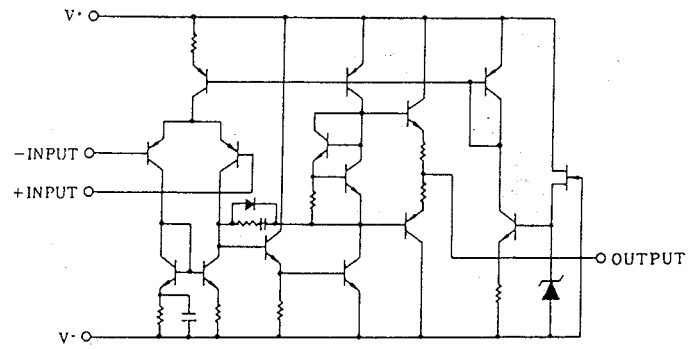
6-6

■ RC2068MD 【RAYTHEON】
(Low-Noise Dual Op.Amplifier)

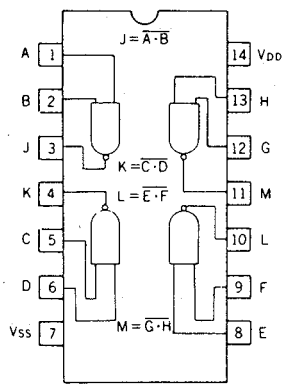
D, Mtype
(Top View)

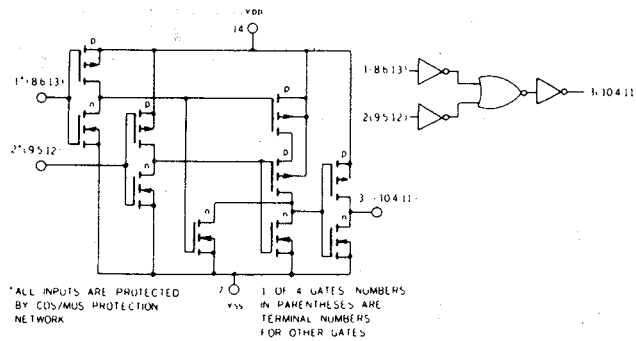


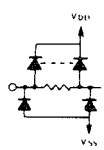
Pin Arrangement
1. A OUTPUT
2. A−INPUT
3. A+INPUT
4. V⁻
5. B+INPUT
6. B−INPUT
7. B OUTPUT
8. V⁺



■ TC4011BF 【TOSHIBA】
(Quad 2 Input NAND Gate)

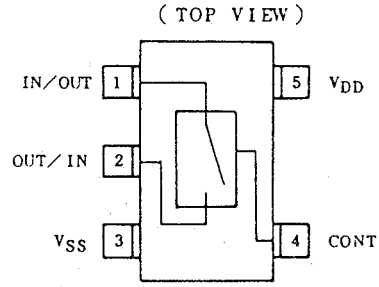



VDD
14
*ALL INPUTS ARE PROTECTED BY COS/MOS PROTECTION NETWORK
7
VSS
1 OF 4 GATES NUMBERS IN PARENTHESES ARE TERMINAL NUMBERS FOR OTHER GATES

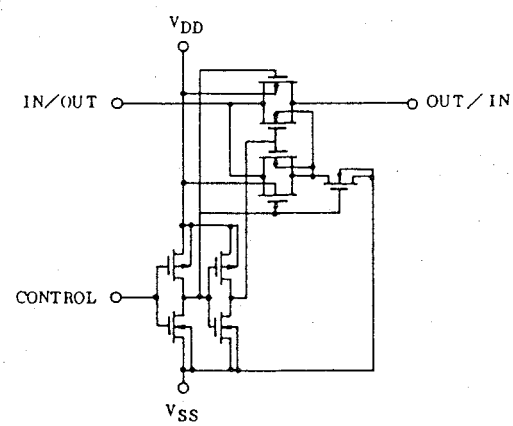


■ TC4S66F 【TOSHIBA】
(Bilateral Switch)

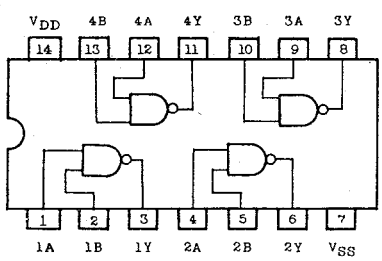
(TOP VIEW)



CONTROL	IMPEDANCE BETWEEN IN/OUT - OUT/IN *
H	$0.5 \sim 5 \times 10^2\ \Omega$
L	$> 10^9\ \Omega$

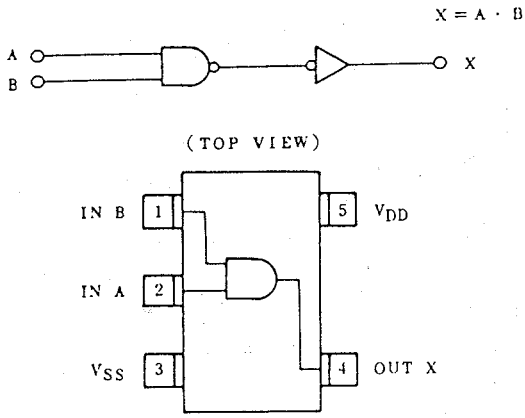


■ TC40H000F 【TOSHIBA】
(Quad 2-Input NAND Gate)

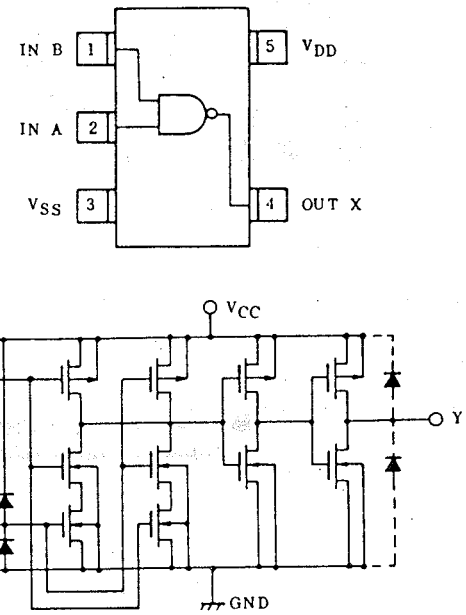


INPUTS		OUTPUT
A	B	Y
L	L	H
H	L	H
L	H	H
H	H	L

■ TC4S81F 【TOSHIBA】
(2-Input AND Gate)



■ TC7S00F 【TOSHIBA】
(2-Input Nand Gate)



SECTION 7
ELECTRICAL PARTS LIST

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.
For maximum reliability and performance, all other replacement parts should be identical to those specified.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS:

RESISTORS – All resistance values are in ohms (Ω).

K	:	1 000
M	:	1 000 000
CR	:	Carbon Resistor
VR	:	Variable Resistor (Potentiometer)
MFR	:	Metal Film Resistor

CAPACITORS – All capacitance values are in μF, unless otherwise indicated.

P	:	μμF
C Cap	:	Ceramic Capacitor
E Cap	:	Electrolytic Capacitor
F Cap	:	Film Mica Capacitor
MY Cap	:	Mylar Capacitor
NP Cap	:	Non-polar Capacitor
T Cap	:	Tantalum Capacitor
TR Cap	:	Trimmer Capacitor
MP Cap	:	Metalized Paper Capacitor

Note: In the "Description" column of the parts list, (U) means the parts for the U version while (E) is for the E version.

Symbol No.	Part No.	Part Name	Description	
IC3	SCV1585-064	I.C.(M)	JVC	(U) ← for U version
	SCV1585-067	I.C.(M)	JVC	(E) ← for E version

7.1 AD board assembly list [5][1]

<SCK2312-01-N1A: for U version> [5][1]□□□□□□□

<SCK2312-01-P0A: for E version>

Symbol No.	Part No.	Part Name	Description
IC1	TC7S00F	I.C.(M)	TOSHIBA
IC2	RC2068MD	I.C.(M)	RAYTHEON
IC3	TC4S81F	I.C.(M)	TOSHIBA
IC4	MC74HC4052F	I.C.(M)	
IC5	MC14052BF	I.C.(M)	MOTOROLA
IC6	MC14053BF	I.C.(M)	MOTOROLA
IC7	MC14577BP	I.C.(M)	MOTOROLA
IC8	MC14577BP	I.C.(M)	MOTOROLA
IC9	MC14577BP	I.C.(M)	MOTOROLA
IC10	TC40H166F	I.C.(M)	TOSHIBA
IC11	MC14020BF	I.C.(M)	MOTOROLA
IC12	TC40H000F	I.C.(M)	TOSHIBA
IC13	SN75157P	I.C.(M)	TEXAS
IC14	SN75158P	I.C.(M)	TEXAS
IC15	MC14053BF	I.C.(M)	MOTOROLA
IC16	TC7S00F	I.C.(M)	TOSHIBA
IC17	TC4S66F	I.C.(M)	TOSHIBA
IC18	TC7S00F	I.C.(M)	TOSHIBA
IC19	MC14052BF	I.C.(M)	MOTOROLA
IC20	TC4011BF	I.C.(M)	TOSHIBA
Q1	XN4509	TRANSISTOR	MATSUSHITA
Q2	XN4509	TRANSISTOR	MATSUSHITA
Q3	2SA1748(QR)	TRANSISTOR	MATSUSHITA
Q4	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q5	DTC124EU	TRANSISTOR	ROHM
Q6	DTC124EU	TRANSISTOR	ROHM
Q7	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q8	2SD1820(QR)	TRANSISTOR	MATSUSHITA
Q10	DTC124EU	TRANSISTOR	ROHM
Q11	2SB766(QR)	TRANSISTOR	MATSUSHITA
Q12	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q13	2SC3930(BC)	TRANSISTOR	MATSUSHITA
Q14	DTC124EU	TRANSISTOR	ROHM
D1	MA142A	DIODE	MATSUSHITA
D2	HZM4A	ZENNER DIODE	HITACHI
D3	HZM5C	ZENER DIODE	HITACHI
D4	MA142A	DIODE	MATSUSHITA
D5	MA142A	DIODE	MATSUSHITA
D6	MA142A	DIODE	MATSUSHITA
D8	HZM9C	ZENNER DIODE	HITACHI
D9	MA143A	SI DIODE	MATSUSHITA
D10	MA143A	SI DIODE	MATSUSHITA
D11	MA143A	SI DIODE	MATSUSHITA
D12	MA143A	SI DIODE	MATSUSHITA
D13	MA143A	SI DIODE	MATSUSHITA
D14	MA143A	SI DIODE	MATSUSHITA
D15	MA143A	SI DIODE	MATSUSHITA
D16	MA143A	SI DIODE	MATSUSHITA
D17	MA143A	SI DIODE	MATSUSHITA
D18	MA143A	SI DIODE	MATSUSHITA
D19	MA143A	SI DIODE	MATSUSHITA
D20	MA143A	SI DIODE	MATSUSHITA
D21	MA143A	SI DIODE	MATSUSHITA
D22	MA143A	SI DIODE	MATSUSHITA
D23	MA143A	SI DIODE	MATSUSHITA
D24	MA142A	DIODE	MATSUSHITA
⚠ D25	SB540	SI.DIODE	GENERAL INST

Symbol No.	Part No.	Part Name	Description	
D26	MA143A	SI DIODE	MATSUSHITA	
R1	NRSA02J-473	MGR	47K	1/10W
R2	NRSA02J-473	MGR	47K	1/10W
R3	NRSA02J-681	MGR	680	1/10W
R4	NRSA02J-472	MGR	4.7K	1/10W
R5	NRSA02J-472	MGR	4.7K	1/10W
R6	NRSA02J-473	MGR	47K	1/10W
R7	NRVA02D-102	MFR	1.0K	1/10W
R8	NRSA02J-104	MGR	100K	1/10W
R9	NRSA02J-0R0	MGR	0	1/10W
R10	NRSA02J-750	MGR	75	1/10W
R11	NRSA02J-223	MGR	22K	1/10W
R12	NRSA02J-473	MGR	47K	1/10W
R13	NRSA02J-561	MGR	560	1/10W
R16	NRVA02D-102	MFR	1.0K	1/10W
R17	NRVA02D-392	MFR	3.9K	1/10W
R18	NRVA02D-102	MFR	1.0K	1/10W
R19	NRVA02D-102	MFR	1.0K	1/10W
R20	NRVA02D-102	MFR	1.0K	1/10W
R21	NRVA02D-392	MFR	3.9K	1/10W
R22	NRVA02D-102	MFR	1.0K	1/10W
R23	NRSA02J-0R0	MGR	0	1/10W
R24	NRVA02D-102	MFR	1.0K	1/10W
R25	NRVA02D-102	MFR	1.0K	1/10W
R26	NRSA02J-391	MGR	390	1/10W
R27	NRVA02D-472	MFR	4.7K	1/10W
R28	NRVA02D-472	MFR	4.7K	1/10W
R29	NRVA02D-472	MFR	4.7K	1/10W
R30	NRVA02D-472	MFR	4.7K	1/10W
R31	NRVA02D-472	MFR	4.7K	1/10W
R32	NRVA02D-472	MFR	4.7K	1/10W
R33	NRSA02J-104	MGR	100K	1/10W
R34	NRSA02J-101	MGR	100	1/10W
R35	NRSA02J-101	MGR	100	1/10W
R36	NRVA02D-392	MFR	3.9K	1/10W
R37	NRVA02D-392	MFR	3.9K	1/10W
R38	NRVA02D-122	MFR	1.2K	1/10W
R39	NRVA02D-122	MFR	1.2K	1/10W
R40	NRVA02D-392	MFR	3.9K	1/10W
R41	NRVA02D-102	MFR	1.0K	1/10W
R42	NRVA02D-272	MFR	2.7K	1/10W
R44	NRSA02J-822	MGR	8.2K	1/10W
R45	NRSA02J-332	MGR	3.3K	1/10W
R46	NRSA02J-103	MGR	10K	1/10W
R47	NRSA02J-103	MGR	10K	1/10W
R48	NRSA02J-750	MGR	75	1/10W
R49	NRVA02D-182	MFR	1.8K	1/10W
R50	NRSA02J-562	MGR	5.6K	1/10W
R51	NRVA02D-102	MFR	1.0K	1/10W
R52	NRVA02D-102	MFR	1.0K	1/10W
R53	NRVA02D-102	MFR	1.0K	1/10W
R54	NRVA02D-102	MFR	1.0K	1/10W
R55	NRVA02D-272	MFR	2.7K	1/10W
R56	NRVA02D-102	MFR	1.0K	1/10W
R57	NRSA02J-103	MGR	10K	1/10W
R58	NRSA02J-473	MGR	47K	1/10W
R59	NRSA02J-153	MGR	15K	1/10W
R60	NRSA02J-223	MGR	22K	1/10W

Symbol No.	Part No.	Part Name	Description	
R61	NRSA02J-0R0	MGR	0	1/10W
R62	NRSA02J-223	MGR	22K	1/10W
R63	NRSA02J-223	MGR	22K	1/10W
R64	NRSA02J-103	MGR	10K	1/10W
R65	NRVA02D-223	MFR	22K	1/10W
R66	NRVA02D-102	MFR	1.0K	1/10W
R67	NRSA02J-223	MGR	22K	1/10W
R68	NRSA02J-223	MGR	22K	1/10W
R69	NRVA02D-102	MFR	1.0K	1/10W
R70	NRSA02J-103	MGR	10K	1/10W
R71	NRSA02J-103	MGR	10K	1/10W
R74	NRSA02J-223	MGR	22K	1/10W
R75	NRSA02J-223	MGR	22K	1/10W
R76	NRSA02J-223	MGR	22K	1/10W
R77	NRSA02J-223	MGR	22K	1/10W
R78	NRSA02J-223	MGR	22K	1/10W
R79	NRSA02J-223	MGR	22K	1/10W
R80	NRSA02J-151	MGR	150	1/10W
R81	NRSA02J-151	MGR	150	1/10W
R82	NRSA02J-151	MGR	150	1/10W
R83	NRSA02J-224	MGR	220K	1/10W
R84	NRSA02J-472	MGR	4.7K	1/10W
R85	NRSA02J-104	MGR	100K	1/10W
R86	NRSA02J-104	MGR	100K	1/10W
R87	NRVA02D-102	MFR	1.0K	1/10W
R88	NRVA02D-102	MFR	1.0K	1/10W
R89	NRSA02J-104	MGR	100K	1/10W
R90	NRSA02J-223	MGR	22K	1/10W
R91	NRSA02J-332	MGR	3.3K	1/10W
R92	NRSA02J-222	MGR	2.2K	1/10W
R93	NRSA02J-750	MGR	75	1/10W
R94	NRSA02J-750	MGR	75	1/10W
R95	NRSA02J-750	MGR	75	1/10W
R96	NRSA02J-750	MGR	75	1/10W
R97	NRSA02J-750	MGR	75	1/10W
R98	NRVA02D-182	MFR	1.8K	1/10W
R99	NRVA02D-102	MFR	1.0K	1/10W
R100	NRVA02D-182	MFR	1.8K	1/10W
R101	NRVA02D-102	MFR	1.0K	1/10W
R102	NRSA02J-0R0	MGR	0	1/10W
R104	NRSA02J-391	MGR	390	1/10W
R105	NRVA02D-102	MFR	1.0K	1/10W
R106	NRSA02J-0R0	MGR	0	1/10W
R107	NRVA02D-102	MFR	1.0K	1/10W
R108	NRSA02J-104	MGR	100K	1/10W
R109	NRSA02J-223	MGR	22K	1/10W
R110	NRSA02J-104	MGR	100K	1/10W
R111	NRSA02J-223	MGR	22K	1/10W
C1	QEPA1CM-106	NP E.CAPACITOR	10	16V
C2	QETA1AM-227	AL.E.CAPACITOR	220	10V
C3	NCS21HJ-102	C CAP	1000P	50V
C4	NCB21HK-222	C CAP	2200P	50V
C5	NCS21HJ-102	C CAP	1000P	50V
C6	QEPA1CM-106	NP E.CAPACITOR	10	16V
C7	QEPA1CM-106	NP E.CAPACITOR	10	16V
C8	NCB21HK-222	C CAP	2200P	50V
C9	QETA1AM-227	AL.E.CAPACITOR	220	10V
C10	NCT03CH-151	C CAP	150P	50V

Symbol No.	Part No.	Part Name	Description	
C11	QEPA0JM-476	NP CAP	47	6.3V
C12	QEPA0JM-476	NP CAP	47	6.3V
C13	QEPA0JM-476	NP CAP	47	6.3V
C14	QETA1AM-227	AL.E.CAPACITOR	220	10V
C15	QETA1AM-227	AL.E.CAPACITOR	220	10V
C16	NCF21EZ-104	C CAP	0.10	25V
C17	QER41AM-476	E.CAPACITOR	47	10V
C18	QETA1AM-227	AL.E.CAPACITOR	220	10V
C19	QETA1AM-227	AL.E.CAPACITOR	220	10V
C20	QEPA0JM-476	NP CAP	47	6.3V
C21	QER41EM-106	E CAP	10	25V
C22	QER41AM-476	E.CAPACITOR	47	10V
C23	QER41AM-476	E.CAPACITOR	47	10V
C24	QER41EM-106	E CAP	10	25V
C25	NCF21EZ-104	C CAP	0.10	25V
C26	NCF21EZ-104	C CAP	0.10	25V
C27	NCF21EZ-104	C CAP	0.10	25V
C28	NCF21EZ-104	C CAP	0.10	25V
C29	NCT03CH-121	C CAP	120P	50V
C30	NCT03CH-100	C CAP	10P	50V
C31	NCF21EZ-104	C CAP	0.10	25V
C32	NCF21EZ-104	C CAP	0.10	25V
C33	QER41AM-476	E.CAPACITOR	47	10V
C34	QER41HM-105	E CAP	1.0	50V
C35	QER41AM-476	E.CAPACITOR	47	10V
C36	QETA1EM-108	E.CAPACITOR(CV)	1000	25V
C37	QETA1EM-108	E.CAPACITOR(CV)	1000	25V
C38	NCF21EZ-104	C CAP	0.10	25V
C39	QETA1AM-227	AL.E.CAPACITOR	220	10V
C40	NCF21EZ-104	C CAP	0.10	25V
C41	NCF21EZ-104	C CAP	0.10	25V
C42	QER41AM-476	E.CAPACITOR	47	10V
C46	NCT03CH-101	C CAP	100P	50V
C47	NCF21EZ-104	C CAP	0.10	25V
C48	QER41AM-476	E.CAPACITOR	47	10V
C49	NCT03CH-150	C CAP	15P	50V
C50	QETA1AM-227	AL.E.CAPACITOR	220	10V
C51	NEF11CM-105	TA E.CAPACITOR	1.0	16V
C52	QER41AM-476	E.CAPACITOR	47	10V
C53	QER41AM-476	E.CAPACITOR	47	10V
C54	QER41AM-476	E.CAPACITOR	47	10V
C55	QER41AM-476	E.CAPACITOR	47	10V
L1	SCV1950-221	P.COIL	22 UH	
L2	SCV1950-221	P.COIL	22 UH	
S1	SCV0403-001	SLIDE SWITCH		
S2	SCV1335-004	DIP SWITCH	VTR	
CN1	SCV1766-020	CONNECTOR	20 PIN	
CN2	SSV1591-S04	CONNECTOR	4 PIN	
CN4	SSV1591-S03	CONNECTOR	3 PIN	
CN7	SSV1320-020	CONNECTOR	20 PIN	
CN8	SSV1320-014	CONNECTOR	14 PIN	
CN9	SCV1766-010	CONNECTOR	10 PIN	
CN10	SSV1591-S03	CONNECTOR	3 PIN	

Symbol No.	Part No.	Part Name	Description
FC1	SCV1271-001	FUSE CLIP	FOR F1
FC2	SCV1271-002	FUSE CLIP	FOR F1
T1	SCV0514-001	MIC. TRANSF	

7.2 CT board assembly list 5 2
〈SCK2312-02-00A〉

5 2 □ □ □ □ □ □

Symbol No.	Part No.	Part Name	Description
R1	NRSA02J-820	MGR	82 1/10W
R2	NRSA02J-472	MGR	4.7K 1/10W
R3	NRSA02J-472	MGR	4.7K 1/10W
R4	NRSA02J-103	MGR	10K 1/10W
R5	NRSA02J-103	MGR	10K 1/10W
VR1	SCV1758-202	TRIM.RESISTOR	2K INCOM LEVEL
C1	QER41AM-476	E CAPACITOR	47 10V
S1	SCV0490-011	SLIDE SWITCH	VTR/RM
S2	SCV0389-011	SLIDE SWITCH	COMPO/YC/RGB
S3	SCV0490-011	SLIDE SWITCH	AUDIO LEVEL
S4	SCV0490-011	SLIDE SWITCH	MIC
S5	SCV0490-011	SLIDE SWITCH	M2/BETA
CN3	SSV1591-L04	CONNECTOR	4PIN
CN9	SCV1766-010	CONNECTOR	10PIN
JK1	SCV1925-001	EARPHONE JACK	

7.3 50PCN board assembly list 5 3
〈SCK2312-03-00A〉

5 3 □ □ □ □ □ □

Symbol No.	Part No.	Part Name	Description
CN7	SCV1766-020	CONNECTOR	20PIN
CN8	SCV1766-014	CONNECTOR	14PIN
CN12	SCV1978-L02	CONNECTOR	2PIN
CN39	SCV1244-50S	CONNECTOR	50PIN

7.4 26PCN board assembly list 5 4
〈SCK2312-04-00A〉

5 4 □ □ □ □ □ □

Symbol No.	Part No.	Part Name	Description
⚠ LC1	EXC-EMT271BC	EMI FILTER	
CN1	SCV2019-020	CONNECTOR	20PIN
⚠ JK2	SCV1245-26P	CONNECTOR	26PIN

7.5 DC INPUT board assembly list 5 5
〈SCK2312-08-00A〉

5 5 □ □ □ □ □ □

Symbol No.	Part No.	Part Name	Description
⚠ LC2	EXC-EMT271BC	EMI FILTER	
JK5	REFER TO THE SECTION 5 "Camera adapter assembly" No. ㉑		DC INPUT
S2	S2 WAS ASSEMBLYED WITH JK5		

7.6 INTCOM board assembly list 5 6
〈SCK2312-06-01A〉

5 6 □ □ □ □ □ □

Symbol No.	Part No.	Part Name	Description
R1	NRSA02J-101	M.G.RESISTOR	100 1/10W
CN3	SSV1591-S04	CONNECTOR	4PIN
JK4	QMS6312-014	JACK	INCOM

7.7 7PCN board assembly list 5 7
〈SCK2312-05-00A〉

5 7 □ □ □ □ □ □

Symbol No.	Part No.	Part Name	Description
CN2	SSV1591-L04	CONNECTOR	4PIN
JK3	SCV1214-002	CONNECTOR	2PIN

7.8 POWER board assembly list 5 8
〈SCK2312-07-00A〉

5 8 □ □ □ □ □ □

Symbol No.	Part No.	Part Name	Description
⚠ S1	REFER TO THE SECTION 5 "Camera adapter assembly" No. ⑱		POWER
CN5	SSV1591-L02	CONNECTOR	2PIN
CN6	SSV1591-L03	CONNECTOR	3PIN